English

PagePro® 9100 Installation Guide

1800659-001B

English

Thank You

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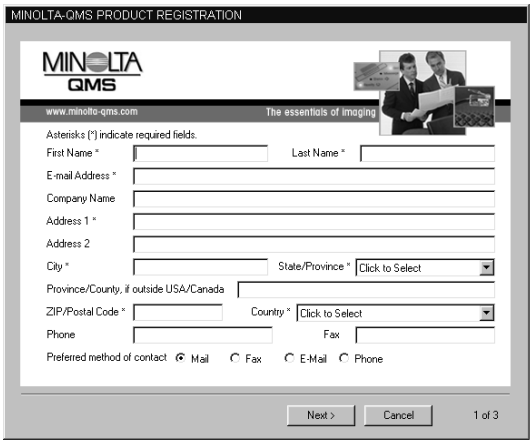
Registering the Printer

Mail—Fill out and send in the registration card enclosed in your shipment.

Internet—Go to www.onlineregister.com/minolta-qms/ and follow the instructions given there.

CD-ROM—Follow the instructions on the CD-ROM.



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Hardware Installation Guide

Getting Acquainted with Your Printer

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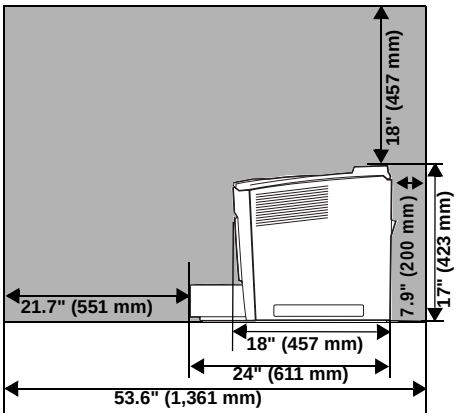
PagePro 9100 Features

Features	Media Size	Speed Simplex	Speed Duplex
Print Speed (pages per minute [ppm])	Letter/A4	Up to 35	Up to 26
	Ledger/ A3	Up to 19	Up to 13
	Envelopes	14.5	N/A
	Postcards	26.6	N/A
SDRAM	64 MB		
500-sheet Upper Media Tray	Standard		
200-sheet Multipurpose Media Tray	Standard		
4-bin Mailbox	Optional		
Optional Media Trays (up to 3)	Optional		
IEEE-1284 parallel	Standard		
Ethernet	Standard		
USB	Standard		
Internal IDE Hard Disk	Optional		
Time-of-Day Clock	Optional		
Manual Duplexing	Standard		
Autoduplex Printing	Optional (Only plain paper, 16–24 lb [60–90 g/m^2], can be autoduplexed.)		

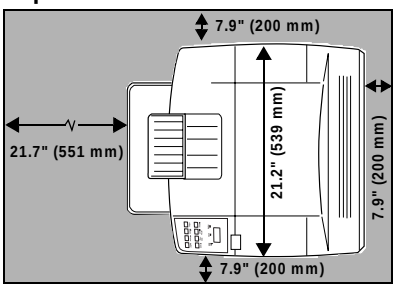
Space Requirements

Refer to the *User's Guide* (in PDF on the *Documentation* CD-ROM) for printer space requirements with options attached.

Side View



Top View



=Clearance

English

Locate your Printer...

With these characteristics...	But away from...
On a hard, flat, stable, level (±1° or less slant at any point around the machine) surface.	Direct sunlight. Heating and cooling sources, extreme temperature or humidity changes, wind, and dust. Open flames or items that easily burn.
Close to an easily accessible grounded power supply (on an exclusively dedicated power outlet) that meets printer specifications. Near your computer. At the length 6.5' (2 m) or less for an IEEE 1284 bidirectional parallel connection.	A connection to the same electrical circuit as high-current machines. Noise-generating equipment, such as a copier or air conditioner, and strong magnetic or electromagnetic fields, such as a refrigerator.
With enough space to allow easy servicing, and adequate ventilation.	Water, water pipes, liquid (drink) containers, humidifiers, and corrosive chemicals or vapors, such as ammonia.
With an ambient temperature range of 50°–95° F (10°–35° C) and relative humidity range of 15%–85% (noncondensing).	Small, loose metal parts, such as paperclips and staples.
At an altitude of 0–10,170' (0–3,100 m).	Excessive vibration.

WARNING!

Obstructing the ventilation grilles could present a fire hazard.

Attention

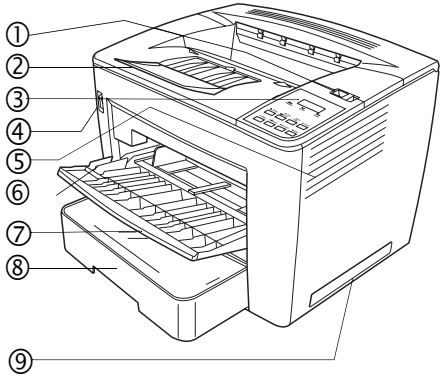
For products installed outside North America, do not connect the groundwire to gas or water pipes or grounding for telephones.

For further details, refer to the *User's Guide* in PDF on the *Documentation* CD-ROM.

Printer Parts

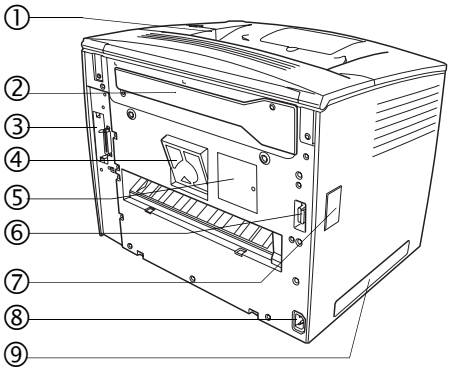
The following drawings illustrate the parts of your printer referred to throughout this guide, so please take some time to become familiar with them.

Front View



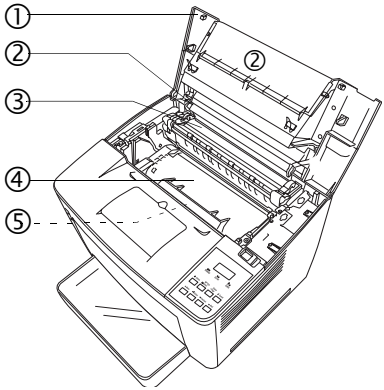
1—Top cover release lever
2—Output tray extension
3—Control panel
4—Power switch
5—Ventilation grilles
6—Media guide
7—Multipurpose tray (open)
8—Upper media tray
9—Carrying grips (both sides)

Rear View



1—Top cover
2—Optional mount cover
3—Interface panel
4—Exhaust port
5—Fuser unit cover
6—Duplexer connection
7—4-bin mailbox connection
8—AC power connection
9—Carrying grips (both sides)

Top Internal View



1—Top cover
2—Transfer roller
3—Fuser unit
4—Toner cartridge
5—Print head unit (inside; should **not** be opened at any time)

Documentation Set

If you're using the Acrobat PDF version of this guide, click this icon to play a QuickTime video clip of the procedure described in the text. Acrobat Reader and a download link to QuickTime are provided on both CD-ROMs.

English

Manual	Description	Location
Quick Setup Guide	Use this sheet when unpacking the printer.	Hardcopy and *Documentation* CD-ROM
Installation Guide	**Hardware:** You're looking at this document right now. This guide provides information about installation of the printer, the interface panel, and the control panel.	Hardcopy and *Documentation* CD-ROM
	Software: This guide provides information about the software configuration and driver installation.	
Maintenance Guide	Keep this guide close to the printer for quick reference information regarding operation and care.	Hardcopy and *Documentation* CD-ROM
User's Guide	This guides you through the day-to-day operation of your printer, including printing files, refilling print media, and replacing toner. It also includes information on additional accessories; cleaning, and maintaining your printer; improving print quality; and troubleshooting printer problems.	*Documentation* CD-ROM
CrownBooks	These manuals provide detailed information about Crown architecture, the CrownView application, menu configuration, and advanced computer/ network connection and configuration.	*Documentation* CD-ROM
Service & Support Guide	This lists global sources of service and support for your printer. The most up-to-date information can be found at www.minolta-qms.com.	Hardcopy and *Software Utilities* CD-ROM

Setting up Your Printer

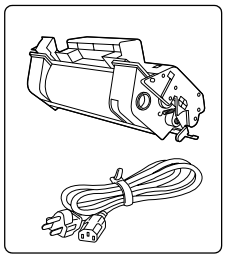
WARNING!

Your printer weighs approximately 61.7 lbs (28 kg) without the consumables and accessories. Be sure to have help when lifting and moving it.

English

Shipment Contents

- Printer (with 500-sheet upper media tray, 200-sheet multipurpose tray)
- Toner cartridge
- Power cord
- Two CD-ROMs *(Software Utilities* and *Documentation*)
- Documentation (see “Documentation Set” on page 4)



Interface cables aren’t included in the shipment. If you need cables, contact your local vendor or computer store.

Unpacking the Printer

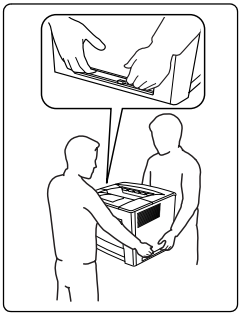
*We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer.*

After removing the consumables from the printer carton, use the following instructions to unpack your printer.

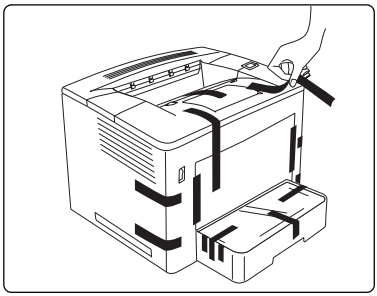
1 With another person’s help, lift the printer from the carton.

Do not tilt it more than 1° in any direction at any time.

For best output quality and longest consumables life, place the printer on a hard, flat, level, stable surface capable of supporting about 153.5 lbs (69.6 kg) with all accessories and consumables, but not counting media.



2 Remove the tape from the printer.



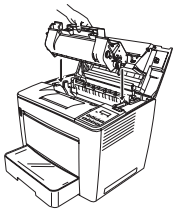
Attention

Do not plug in the power cord until told to do so.

Installing the Toner Cartridge

The toner cartridge contains the OPC (Optical Photo Conductor) and toner that form the image that is developed and transferred to the media.

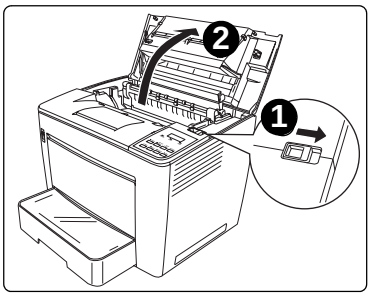
Each toner cartridge comes with a prepaid UPS label inside the box so you can recycle the cartridge when it is empty.



Attention

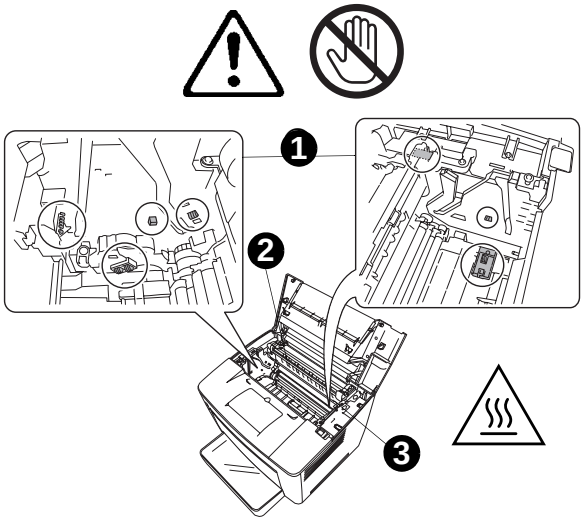
The OPC is extremely sensitive to bright light, direct sunlight, and touch. Always leave the toner cartridge in its protective package until you're ready to install it. Any exposure to light should be limited to less than two minutes, or permanent damage could result.

1 Slide the top cover release lever to the right ①, and open the top cover ②.



Attention

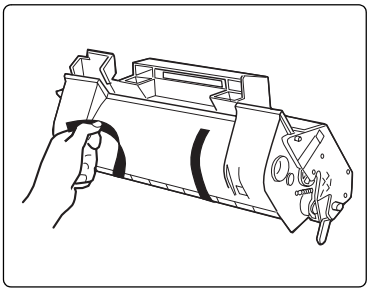
Never touch the copper or brass electrodes ① or electrical parts that are located inside the top cover and underneath the toner cartridge, as a printer malfunction can result.



Be careful not to touch ② around the image transfer roller (*touching certain parts in this area may result in reduced print quality) or* ③ around the fusing unit *(since the inside reaches temperatures of about 392 °F (200 °C), touching any part in this area may result in burns).*

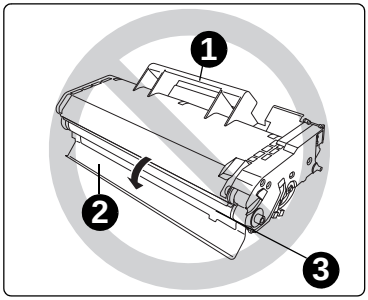
2 Remove the new toner cartridge from its protective box.

3 Peel off the packing tape.



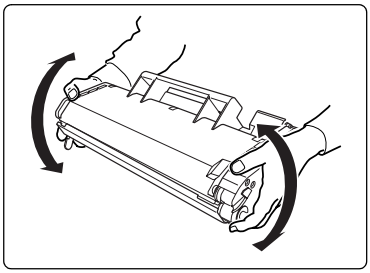
Attention

Hold the toner cartridge by its handle ①. Do not open the protective cover② of the OPC (the green area ③) or allow anything to come in contact with the OPC. It is extremely sensitive to hand oils and scratches, both of which reduce print quality. This type of damage is not covered by your warranty.



4 Slowly shake the toner cartridge, tilting it to the left and right 7 or 8 times to distribute the toner.

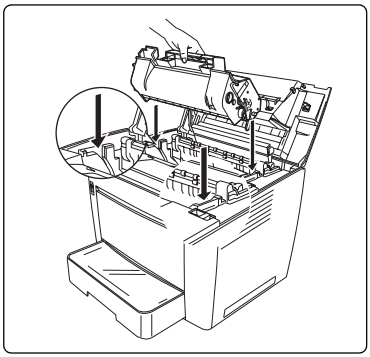
The toner is nontoxic. If you get toner on your hands, wash them in cool water and mild neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot, water to rinse the toner off, provided your clothing is washable.



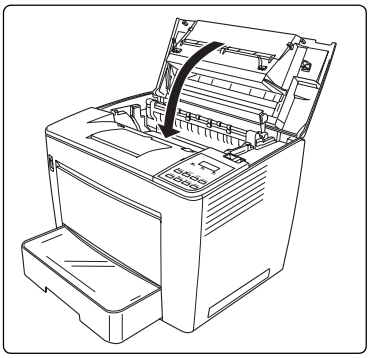
WARNING!

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) can be found at www.minolta-qms.com (click on Online Help & Drivers).

5 Align the tabs on the cartridge (one on each side) with the notches in the printer, and then insert the cartridge as far as possible into its compartment.



6 Close the top cover, pushing it down until it locks into place.



Attention

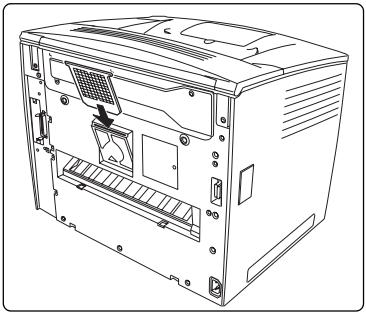
Do not transport the printer with the toner cartridge installed. If toner spills within the printer, decreased print quality may result or the printer may be damaged.

WARNING!

The toner cartridge should not be opened under any circumstances.

Installing the Exhaust Filter

Insert the exhaust filter in the exhaust port on the back of the printer.



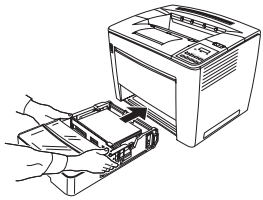
Attention

If you will be installing an optional duplexer, it is not necessary to install the exhaust filter.

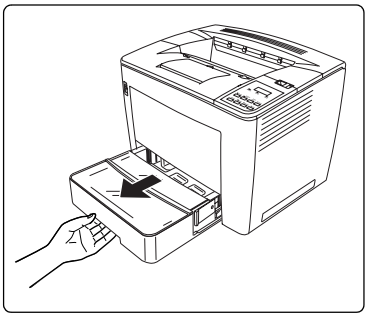
Loading the Upper Media Tray

For information about approved media, refer to chapter 2, “Using Media,” in the *User’s Guide*.

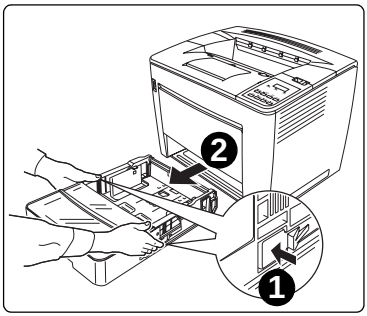
Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.



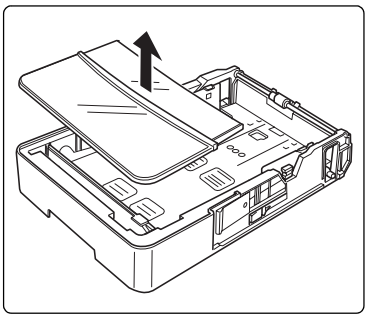
1 Pull out the upper media tray until it stops.



2 While pressing the release buttons ① (one on each side of the media tray), remove the tray ②.



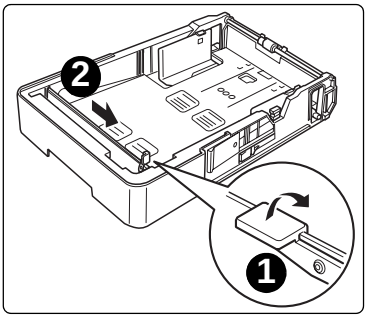
3 Remove the media tray cover.



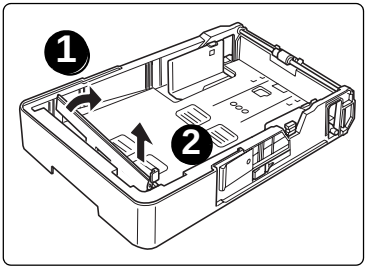
4 Position the media retainer for the size of the media to be loaded.

The media size is detected depending on the position of the media retainer.

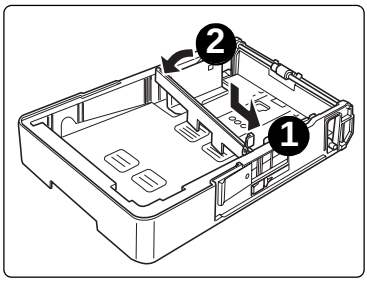
a Lift up the gray lever ① on the right end of the media retainer, and then slide the media retainer to the right ②.



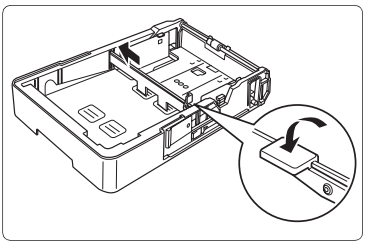
b Lift up on the left end of the media retainer ① and remove it ②.



c Insert the right end of the media retainer into the slot ① for the size of media to be loaded and press it down ②.



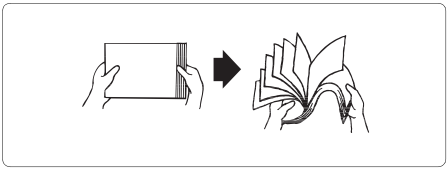
d Slide the retainer to the left, and then press down on the gray lever to secure the retainer.



Attention

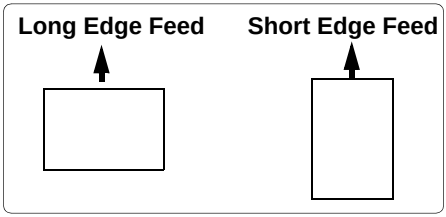
Pressing down on the lever before sliding the retainer to the left causes the sides of the tray to bulge and fit improperly in the printer.

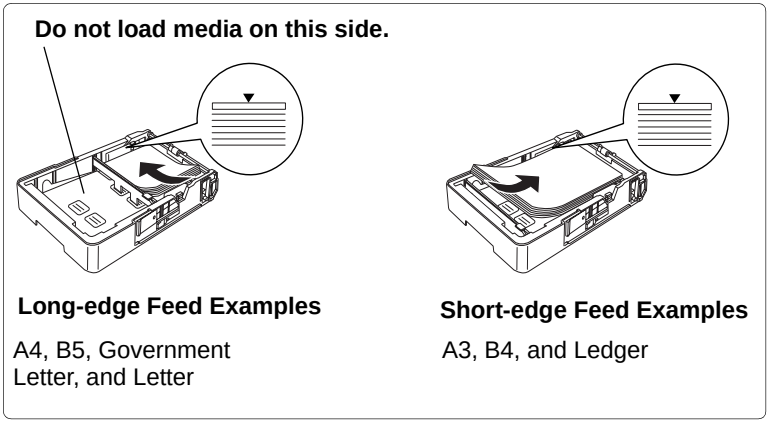
5 Fan a stack of approximately 500 sheets of paper.



6 Align the four edges of the media, and then load it with the printing-side up.

Often, an arrow on the media package label indicates the printing-side of the media.





Long-edge Feed Examples

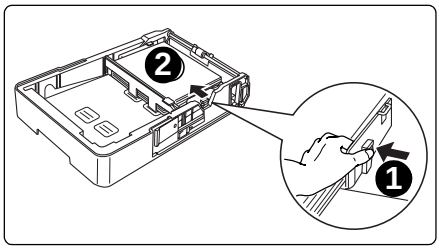
A4, B5, Government Letter, and Letter

Short-edge Feed Examples

A3, B4, and Ledger

7 Press the button on the media guide ①, and then slide the guide against the edge of the media ②.

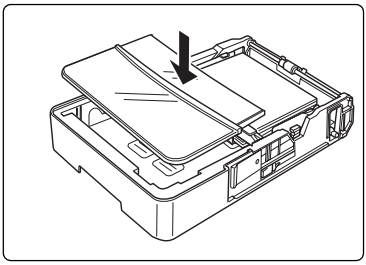
Do not load media above the fill limit mark (▼) on the inside left side of the tray or it may not feed correctly. The upper media tray holds a maximum of 500 letter/A4 sheets of 20 lb (75 g/m^2) of plain paper.



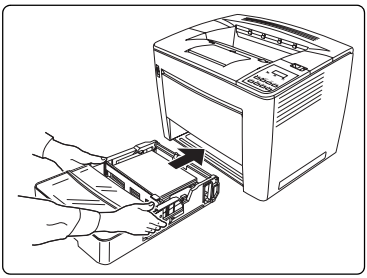
Attention

The media should fit easily between the guides. Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

8 Install the media tray cover.

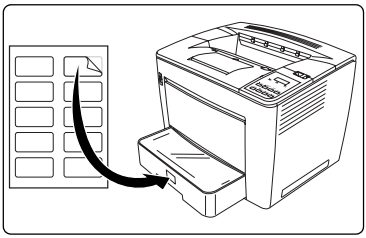


9 Insert the media tray as far as possible into the printer. It should snap into place.

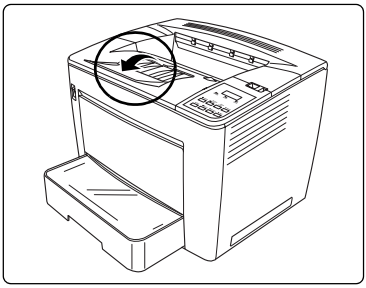


10 Attach the appropriate media-size label to the the media tray.

Media-size labels are supplied with this printer.

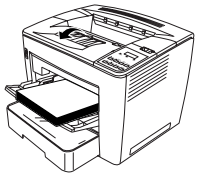


11 When printing on media larger than B4, open the output tray extension.



Loading the Multipurpose Tray

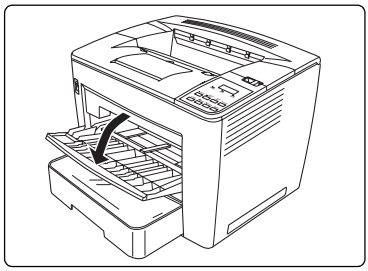
For information about approved media and about loading different types of media, refer to chapter 2, “Using Media,” in the *User’s Guide*.



The multipurpose tray is used for all media types, especially envelopes, labels, Japanese-sized postcards, thick stock, and transparencies.

Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.

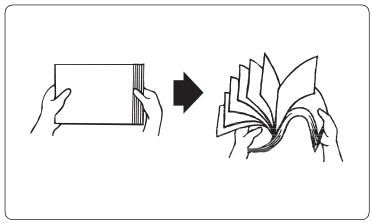
1 Open the multipurpose tray.



2 Fan a stack of approximately 200 sheets of paper.

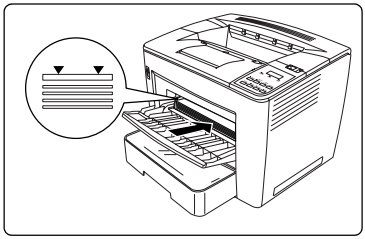
3 Align the edges of the paper, and then load it with its printing-side up and short edge toward the printer.

Often, an arrow on the paper package label indicates the printing-side of the media.

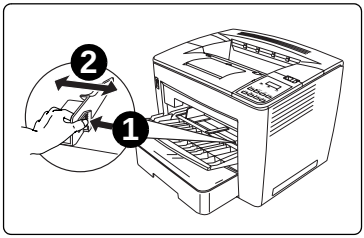


Attention

Do not load media above the fill limit mark on the inside left of the tray, or it may not feed correctly. The multipurpose media tray holds approximately 200 sheets of 20 lb bond (75 g/m²) paper.

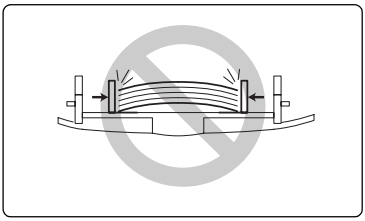


4 While pressing the button on the right side of the media guide ①, slide the media guide to adjust it ②.

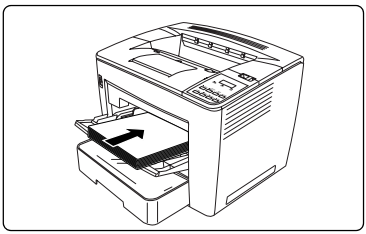


Attention

The media should fit easily between the guides. Improperly adjusted guides may cause poor print quality, media jams, or printer damage.



5 Slide the media as far as possible into the feed slot.



Installing Accessories

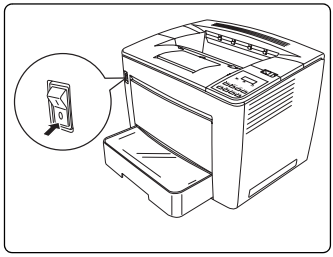
Attention

Installing accessories always requires that both the printer and the accessories are turned off and unplugged during installation.

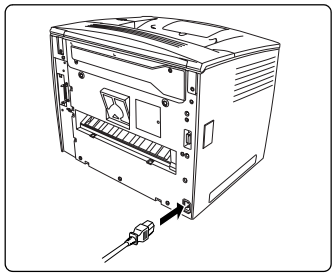
If you purchased any additional printer accessories (such as a duplexer or additional memory), then install them now. If installation instructions are included with the accessory, follow them. If not, instructions are included in the *User's Guide* (in PDF on the *Documentation* CD-ROM). A list of accessories is on "Accessories and Consumables" on page 26 of this manual.

Plugging in/Turning on the Printer

1 Make sure the printer is turned off.

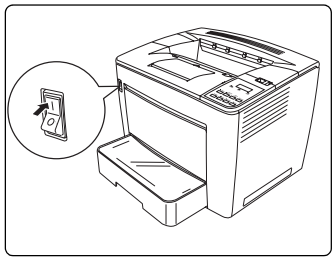


2 Plug the printer power cord into the printer and into a dedicated, grounded, surge-protected electrical outlet.



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

3 Turn on the printer.



After approximately a 70-second warmup (assuming normal temperature and humidity), your printer prints a startup page and displays "IDLE" on the message window.

If "IDLE" is not displayed in the message window after the printer is turned on and warmed up, recheck the setup. If the startup page doesn't print or the print quality is not good, skip ahead to "About the Interface Panel" on page 24.

The printer automatically switches to power-saving (energy-saving) mode after 30 minutes of inactivity. You can change the number of minutes in the Administration/Engine/Energy Saver menu.

Attention

Never turn the power off while the printer is receiving data or printing.

What's Next?

You have now completed the hardware setup of your printer. There are three more important steps:

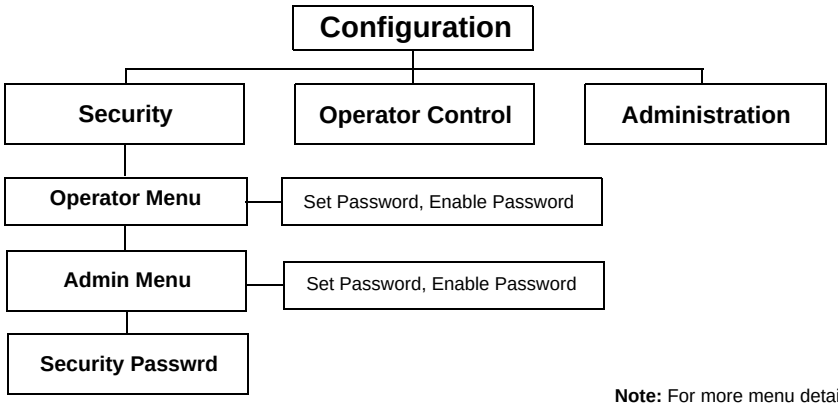
- Select the message window language you prefer, if your language is other than English (refer to "Selecting a Message Window Language" on page 21).
- Connect the printer to your computer or a network (refer to the MINOLTA-QMS *Software Installation Guide*).
- Install a PagePro 9100 printer driver (refer to the MINOLTA-QMS *Software Installation Guide).*

Configuration Menu Overview

The printer's configuration menu allows you to customize the printer settings for your printing environment. In normal situations, you should not have to perform any configuration other than that indicated in this manual.

The three main configuration menus are shown below.

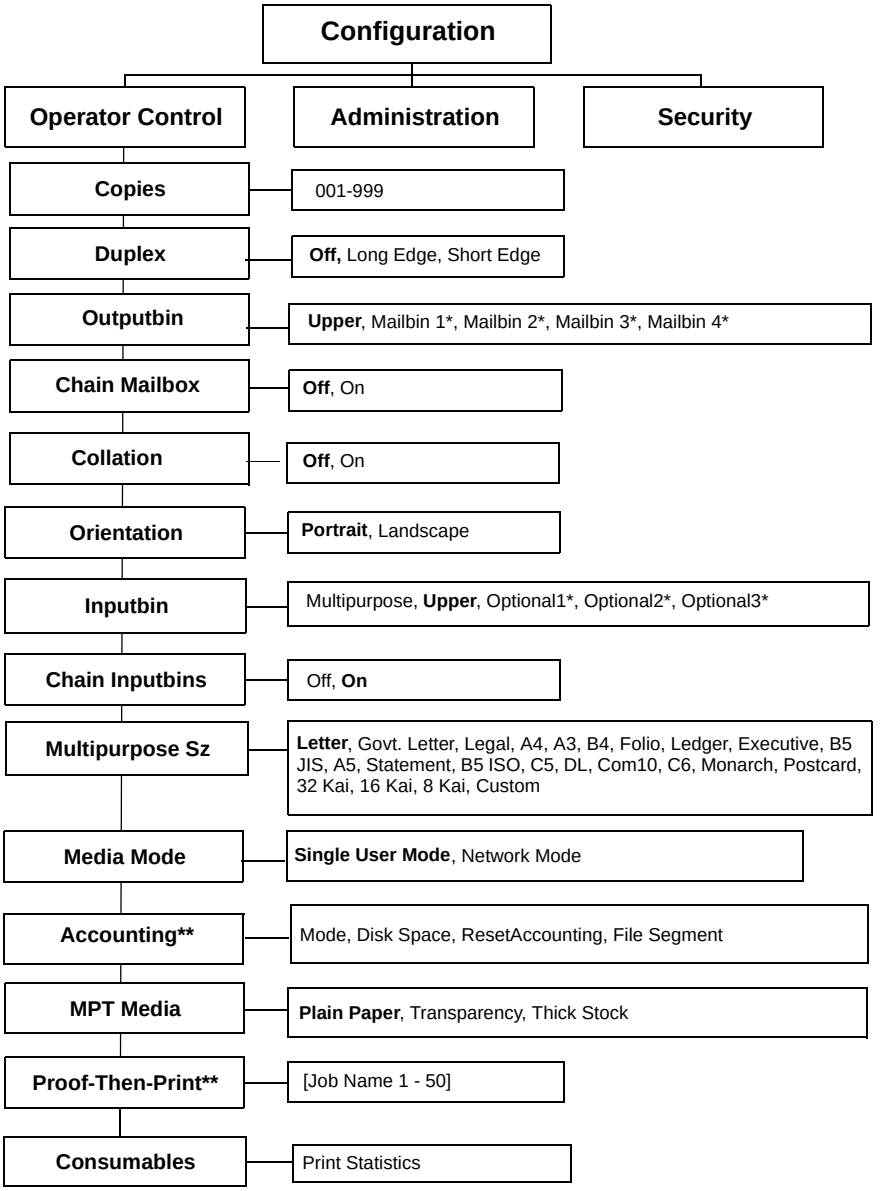
Security Menu



Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Documentation* CD-ROM.

English

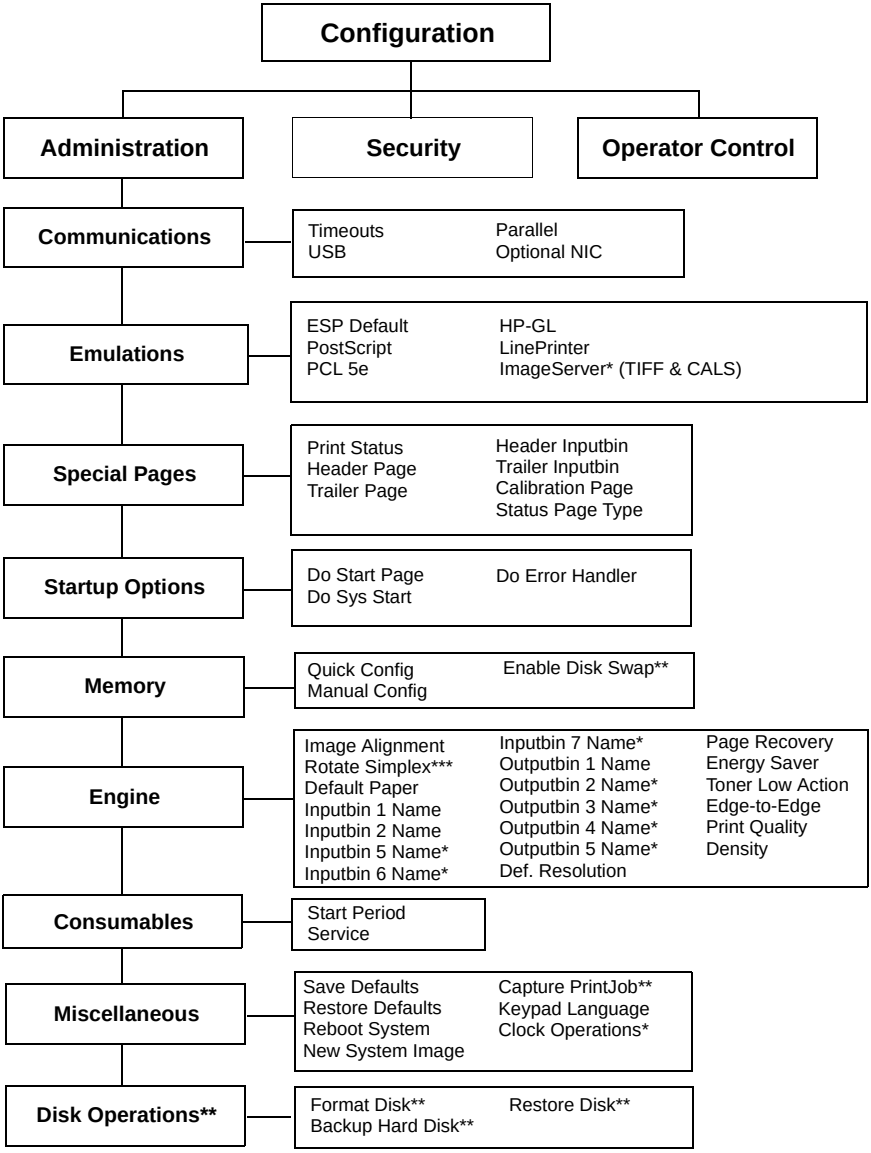
Operator Control Menu



*Only with an optional media tray(s) installed
**Only with an optional hard disk installed
Bold = Default

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Documentation* CD-ROM.

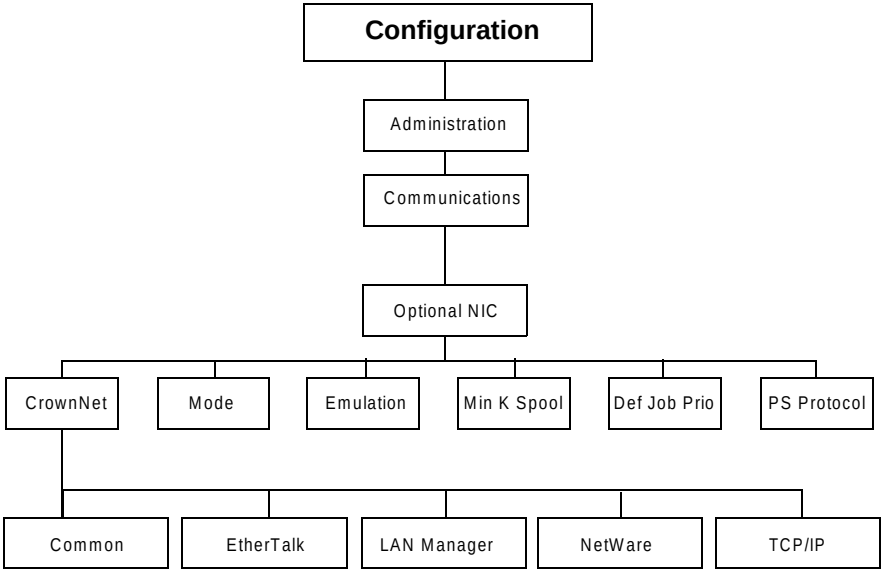
Administration Menu



*Optional
**Only with an optional hard disk installed
***Only with an optional duplexer installed

Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Documentation* CD-ROM.

Administration/Communications/Optional NIC/ CrownNet Submenu for Networking



Note: For more menu details and printer configuration information, refer to the *CrownBooks* in PDF on the *Documentation* CD-ROM.

About the Control Panel

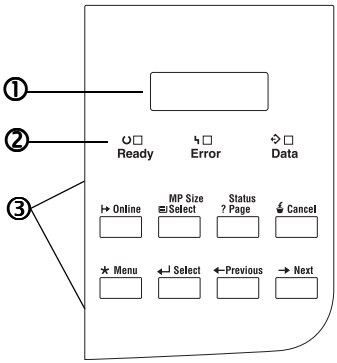
The control panel, located on the right of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.

① A 2-line, 16-characters-per-line message window displays status messages and configuration information.

② 3 indicators provide printer status information.

Status messages are listed in the Maintenance Guide *and the* User's Guide*.*

③ 8 buttons are used in printer configuration.



Selecting a Message Window Language

When you receive your printer, the message window language is set to English. However, status messages and configuration menus can be displayed in the message window in Czech, English, French, German, Italian, Japanese, Portuguese, and Spanish. Chinese (Simplified), Chinese (Traditional), and Korean, don't display in the control panel message window, but choosing them makes CrownView (control panel access via an Internet connection) display in the correct language.

Selecting a language in the control panel also localizes default media size selections.

If you want to change the message window language, use the following control panel sequence (slightly dependent upon the installed options):

Press Key	(Until) Display Reads
Online	`IDLE` (and Online LED is off)
Menu	`OPERATOR CONTROL`
Next	`ADMINISTRATION`
Select	`ADMINISTRATION–COMMUNICATIONS`
Previous	`ADMINISTRATION–MISCELLANEOUS`
Select	`MISCELLANEOUS–SAVE DEFAULTS`
Previous	`MISCELLANEOUS–KEYPAD LANGUAGE`
Select	`KEYPAD LANGUAGE–*ENGLISH`
Next/Previous	Press the Next or Previous key until the language required is displayed.
Select	`<`*`LANGUAGE`*`> IS SELECTED`

The printer must be restarted for changes to the Keypad Language menu to take effect. You can either let the printer restart automatically after you save the change and exit from the Configuration menu, or you can wait for the change to take effect the next time you manually turn on the printer.

Control Panel Indicators

Indicator	Off	On
Ready	The printer is not ready.	The printer is on and ready to receive data.
MESSAGE	No problem	The printer requires operator attention (see the status message in the message window).

Indicator	Off	On
Data	The printer is not receiving data.	The printer is receiving or processing data through one or more of its interfaces (usually accompanied by a status message in the message window).

Control Panel Keys

Key	Function
Online	The **Online** key switches the printer between on line and off line status. When off line, the printer continues printing until it has finished all jobs received, but it doesn't accept any new data. Although jobs continue to compile and print using the data already received, a job may be interrupted. If a remote console has taken the printer off line, pressing the Online key on the control panel will not take effect until the remote console puts the printer back on line. You must take the printer off line before using all keys except the Cancel, Status ? Page, and MP Size keys.
Cancel	The **Cancel** key allows you to cancel one or all print jobs. (See the *CrownBooks* on the *Documentation* CD-ROM for complete information.) It also allows you to end a job. If the printer is on line, press the Cancel key to cancel the job currently printing. To cancel the entire print job if the computer has not completely sent the job, use the printer driver. If you press the Cancel key by mistake, or if you decide not to cancel a print job after pressing this key, press the **Menu** key to "cancel" the Cancel key's function.
MP Size Select	Use the **MP Size Select** key to set the multipurpose tray to the correct media size. The media size must also be set in the driver.
Status ? Page	Use the **Status ? Page** key to print status pages. At the `PRINT STATUS YES` message on the control panel, press the Select key.

Menu, Select, Previous, and Next Keys

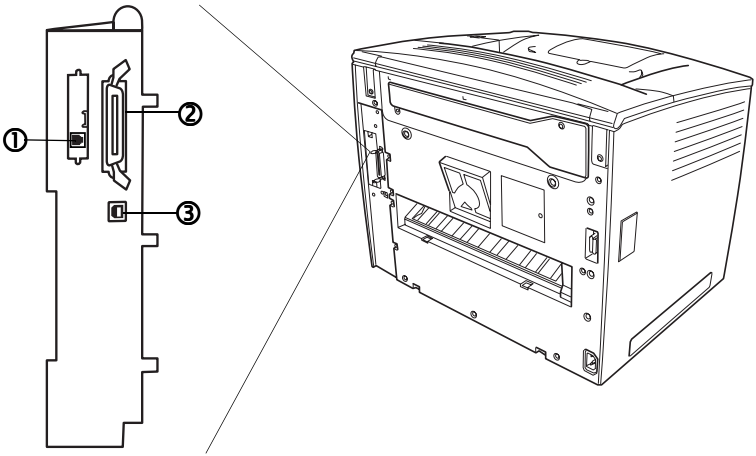
Before using any of these printer configuration keys, press the Online key to take the printer off line.

Key	Function
✱ Menu	The **Menu** key provides access to the configuration menu. First press the Online key to take the printer off line, and then press the Menu key to access the configuration menu. When you're changing the printer configuration, press this key to cancel a change (before pressing the Select key), to return to a previous menu, or to return to a previous character when entering character information.
↵ Select	Press **Select** to access a menu or to choose a displayed menu option.
←Previous	Press the **Previous** key to return to the previous selection or option for the current menu. When changing character information, use this key to return to the previous choice for the current input character.
→ Next	Press the **Next** key to advance to the next selection or option in the current menu. When changing character information, use this key to advance to the next choice for the current input character.

English

About the Interface Panel

The interface panel is located on the back of the printer.



① Ethernet Port

Use a twisted-pair (RJ45) Ethernet cable, when connecting the Ethernet port on the printer to a 10BaseT/100BaseTX network connection.

② Parallel Port

Use a Centronics IEEE 1284 bidirectional parallel cable, when connecting the parallel port on the printer to the parallel port on your computer.

③ USB Port

Use a USB cable (Type B), when connecting the USB port on the printer to the USB port on your computer.

Troubleshooting

Although your printer is designed to be highly reliable, it may occasionally experience a problem. The following table helps you to identify the cause of possible installation problems and suggests some solutions. For detailed troubleshooting information, refer to “Troubleshooting” in the *User’s Guide* (in PDF on the *Documentation* CD-ROM).

Solving Installation Problems

Symptom	Cause	Solution
No lights or messages appear on the control panel.	There is no power supply to the AC outlet.	Make sure there is power supplied to the AC outlet.
	The power cord is not plugged securely into both the power outlet and the printer.	Turn the printer off, plug in the power cord securely, and then turn the printer back on.
	The printer is not turned on.	Turn on the printer.
	The line voltage from the power outlet doesn't match the printer's power requirements.	Make sure the line voltage matches the printer's power requirements. Refer to appendix A in the *User's Guide.*
The Online indicator is on and the message in the display is "`IDLE`," but no startup page prints.	You did not wait long enough.	The printer takes approximately 70 seconds to warm up. Be sure you wait long enough for a startup page before suspecting a problem.
The printer is not receiving data from the computer. *(The Data indicator doesn't blink after a file is sent.)*	The printer is not on line.	Put the printer on line and verify that the message window displays `IDLE`.
	The emulation has been changed from ESP to an emulation that doesn't match the file you are sending.	Print a status page. For information about the ESP mode, refer to the *CrownBooks* on the *Documentation* CD-ROM.
	The port setting is incorrect.	For Ethernet, parallel, or USB connections, set the port to Enabled.
An error message is displayed.	A consumable or tray is not correctly installed.	Handle the message according to the message display.
	Media is jammed.	
	A problem occurred inside the printer.	

English

Symptom	Cause	Solution
You can't print a status page.	The tray does not have media.	Check that the media trays are loaded with media, in place, and secure.
	The media tray's cover isn't closed securely.	Make sure the media tray cover is closed gently and securely. *Avoid jarring the printer.*
	The media is jammed.	Check for a media jam.
The printer is printing codes or not printing at all when in ESP mode.	The printer emulation is not correct.	Reconfigure the port to the specific printer emulation of the file you are trying to print.
	Your ESP timeout is too short.	If a PostScript file prints PostScript statements while the printer is in ESP mode, increase the ESP timeout in the Administration/ Communications/Timeouts/ESP Timeout menu.
Printouts seem faded on one side of the page.	The printer is not on a level enough surface.	Level the printer surface. It should not exceed ±1° slant in any direction (for example, a round pencil laid on the surface shouldn't roll in any direction).

If you've followed all of the instructions and still have problems you can't solve, refer to the *User's Guide* or see the *Service & Support Guide* for how to contact the MINOLTA-QMS office closest to you.

Accessories and Consumables

Contact your local vendor or www.minolta-qms.com for purchase information, parts numbers, and pricing.

Accessories

Description	Remark(s)
4-bin Mailbox	
BuzzBox	Via parallel connection for 100, 120, and 220 volts
CGM	Emulation (requires hard disk)
CrownNet for Ethernet 10BaseT/100BaseTX Interface	Equipped with RJ45 connector

Description	Remark(s)
Dual In-Line Memory Modules (DIMMs)	Additional memory must be 32, 64, 128, or 256 MB, PC-100 Compliant SDRAM DIMMs, up to a printer maximum of 512 MB.
Duplex Option	Only plain paper, 16–24 lb (60–90 g/m^2), can be autoduplexed.
ImageServer	TIFF/CALS emulations (requires hard disk)
Internal IDE Hard Disk Drive	Maximum 2.2 GB
Kanji Font Internal IDE Hard Disk Drive	Includes two fonts
Media Tray, 500 Sheet	Extra trays may be convenient when media formats change and/or media qualities vary frequently.
Optional media trays	Up to three 500-sheet media trays may be added.
PlanetPress	Form-creation utility
QFORM	Form-creation utility
QUIC II	Emulation
Time-of-Day Clock	A real-time clock that allows for advanced accounting features
VMS Host Software	Allows the user to access and use printer features from the VMS operating system.

Consumables

Attention

Consumable life is expressed in simplex letter/A4 pages at normal 5% coverage in continuous printing. A duplex page is equivalent to two simplex pages. The stated life expectancy of each consumable is based on printing under specific operating conditions, such as media type and size. The actual life expectancy will vary (or be reduced) depending on these and other printing variables, including average print job size (such as the average continuous four-page simplex or intermittent one-page simplex jobs), ambient temperature, and humidity.

Description	Message Window Display/Remark(s)
Fuser	Not applicable.
Pickup rollers	

Description	Message Window Display/Remark(s)
Toner cartridge	TONER EMPTY. The toner cartridge consists of an OPC, toner, and a transfer roller.
Transfer roller	
Notes: Refer to the *User's Guide* in PDF on the *Documentation* CD-ROM for consumable life expectancies.	

Use only media approved for laser products. Check www.minolta-qms.com/support (click on Answer Base) for currently approved media. To order approved media, go to www.q-shop.com.

Contact www.minolta-qms.com or your local vendor for purchase information about consumables and accessories, or check the *Service & Support Guide* for the MINOLTA-QMS office closest to you. If you have any questions, refer to www.minolta-qms.com/support, then click on the Answer Base.

Regulatory Compliance

CE Marking and Immunity Requirements (EU)	**International (EU)** IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11	 ESD Radiated Susceptibility Fast Transients Surge Immunity Immunity to Conducted Disturbance Magnetic Field Immunity Voltage Dips and Variations
cTick Mark	**ACA (Australia)** AS/NZS 3548	 ITE
Electro-magnetic Emissions (EMI)	**FCC (USA)** Title 47 CFR Ch. I, Part 15 **Industry Canada (Canada)** ICES-003 Issue 3 **International (EU)** EN 55022 EN 61000-3-2 EN 61000-3-3 **VCCI (Japan)** VCCI V-3/01.04	 Class A Digital Device Class A Digital Device Class A ITE Harmonic Current Emissions Voltage Fluctuations and Flicker Class A ITE
Energy Saver	**ENERGY STAR (USA and Japan)**	ENERGY STAR Compliant in basic configuration
Immunity Requirements (EU)	**International (EU)** EN 55024	Immunity Characteristics
Product Safety	UL (USA)| cUL (Canada) International (EU)	UL 60950, Third Edition CAN/CSA C22.2 60950-00 EN 60950 and IEC 60950
Laser Safety	CDRH (USA) International (EU)	Title 21 CFR Ch. I, Subchapter J EN 60825-1

English

CE Marking (Declaration of Conformity)

For European Users

This product complies with the following EU directives:
89/336/EEC, 73/23/EEC, and 93/68/EEC directives.

This declaration is valid for the areas of the European Union (EU) only.

This devise must be used with a shielded parallel interface cable and shielded USB interface cable.

The use of non-shielded cables is likely to result in interference with radio communications, and is prohibited under 89/336/EEC rules.

FCC Compliance Statement

For American Users

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, the user will be required to correct the interference at his own expense.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Attention

Any modifications or changes to this product not expressly approved in writing by the manufacturer responsible for compliance to Federal Regulations could void the user's authority to operate this product within the Laws and Regulations of the Federal Communications Commission.

Interference-causing Equipment Standard (ICES-003 ISSUE 3)

For Canada Users

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Electro-Magnetic Interference

For All Users (Except for American and Canadian Users)

WARNING!

This is a Class A product. In a domestic environment, this product may cause radio interferences in which case the user may be required to take adequate measures.

Safety Information

Toner

⚠ WARNING

- **Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.**

CAUTION: Keep out of reach of children.

Laser Safety

This printer is a page printer which operated by means of a laser. There is no possibility of danger from the laser, provided the printer is operated according to the instructions in this manual.

Since radiation emitted by the laser is completely confined within protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation.

Internal Laser Radiation

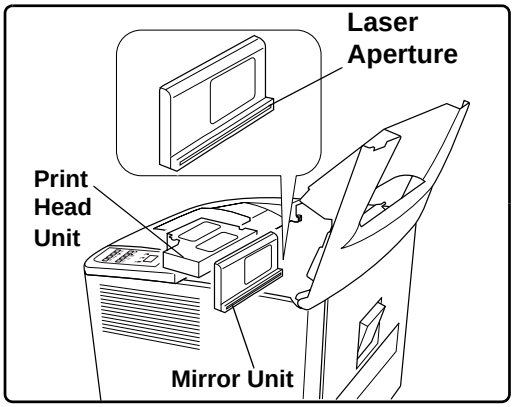
Maximum Average Radiant Power	37 µW at laser aperture of the mirror unit
Wavelength	775–795 nm

This product employs a Class IIIb Laser Diode that has an invisible laser beam. The Laser Diode and Scanning Polygon Mirror are incorporated in the toner cartridge.

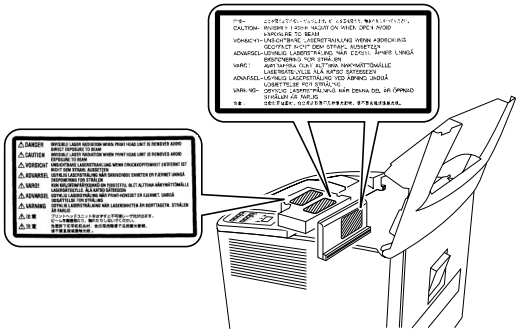
The print head (in the interior of the printer in front of the toner cartridge) consists of the print head unit and the mirror unit. The laser beam is emitted from the print head unit, passes through the mirror unit, then is radiated through the laser aperture of the mirror unit to the interior of the printer.

WARNING!

The print head unit is NOT A FIELD SERVICE ITEM. Therefore, the print head unit should not be opened under any circumstances.



Laser Caution Label



For United States Users—CDRH Regulations

This printer is certified as a Class I laser product under the Regulation Performance Standard according to the Food, Drug, and Cosmetic Act of 1990. Compliance is mandatory for laser products marketed in the United States, and is reported to the Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration (FDA) of the Department of Health and Human Services (DHHS). This means that the product does not produce hazardous laser radiation.

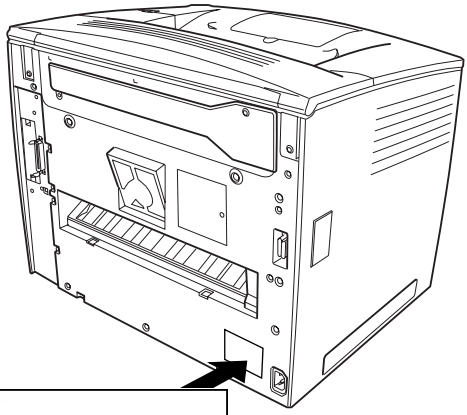
The label shown below indicated compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

CAUTION

- Use of controls, adjustments, or performance other than those specified in this manual may result in hazardous radiation exposure.

This is a semiconductor laser. The maximum power of the laser diode is 15 mW, and the wavelength is 775–795 nm.

Laser Safety Label—CDRH Requirement



MINOLTA QMS

MODEL PagePro 9100
120-127V~ 50-60Hz 10A
SERIAL NO.

199C
I.T.E.
E66579

c UL us
LISTED

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme
NMB-003 du Canada.

MANUFACTURED :
THIS PRODUCT COMPLIES WITH 21 CFR CHAPTER I, SUBCHAPTER J.

MINOLTA-QMS, INC.
One Magnum Pass Mobile, AL 36618

SL

ASSEMBLED IN CHINA

4129-7303-01

International Notices

Power Cord

The following power cord requirements are in effect for your 220 V printer.

Minimum	0.75 mm^2
Minimum	H05 VV - F
The male plug is certified in the country in which the equipment is to be installed, and the female plug is an IEC 320 connector.	

Voltage

Attention Norwegian users: This equipment is designed to operate within an IT power system where the line-to-line voltage does not exceed 240 V.

Acoustic Noise

Machine Noise Regulation 3 GSGV, 18.01.1991: The sound pressure level at the operator according to EN27779 is equal to or less than 70 dB (A).

Ozone Release (For All Users)

During printer operation, a small quantity of ozone is released. This amount is not large enough to harm anyone adversely. However, be sure the room where the printer is being used has adequate ventilation, especially if you are printing a high volume of materials, or if the machine is being used continuously over a long period.

Used Battery Precautions

All Areas	CAUTION
	Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Warranty Considerations

English

Various factors can affect a printer's warranty, such as electrostatic damage, unsupported consumables, and other actions listed on the following page. Read your printer warranty carefully. For information about your warranty, go to www.minolta-qms.com/support, then click on the Answer Base.

If MINOLTA-QMS printer failure or damage is found to be directly attributable to the use of non-MINOLTA-QMS approved consumables, print media, and/or accessories, MINOLTA-QMS will not repair the printer free of charge. In this case, standard time and material charges will be applied to service your printer for that particular failure or damage.

These Actions Will Result in Voiding Your Warranty	
Print Media	Use of nonsupported such as coated color transparencies (OHP) or inkjet paper. See chapter 2, "Using Media," in the *User's Guide* for approved media. Contact your local vendor or www.minolta-qms.com for purchase information.
Electrostatic Discharge	Failure to protect the printer controller board and any associated daughterboard or module from electrostatic discharge or damage while performing any task involving the controller board.
Instructions	Failure to follow instructions in the printer documentation.
Modifications	Any modifications or changes to this product not expressly approved in writing by the manufacturer responsible for compliance to Federal Regulations could void your authority to operate this product within the Laws and Regulations of the Federal Communications Commission.
Consumables	Use of consumables not manufactured or supported by MINOLTA-QMS. Any damage to the printer or quality problems caused by a refilled toner cartridge use.
Toner Cartridge	Any damage resulting from mishandling the toner cartridge (including its OPC) or the transfer roller.
Accessories	Use of accessories not manufactured/supported by MINOLTA-QMS.

Attention

Don't return any merchandise to the manufacturer without calling for a Return Merchandise Authorization (RMA) number. Refer to the *Service & Support Guide* for the Support telephone number where you can obtain an RMA number. If the RMA number is not *prominently* visible on the outside carton of items returned, MINOLTA-QMS will not accept receipt.

English

Software Installation Guide

Software Utilities CD-ROM

Automatic System Software Update

The auto-installer will locate and download the file containing the system software to the printer, if it is present on the *Software Utilities* CD-ROM.

Attention

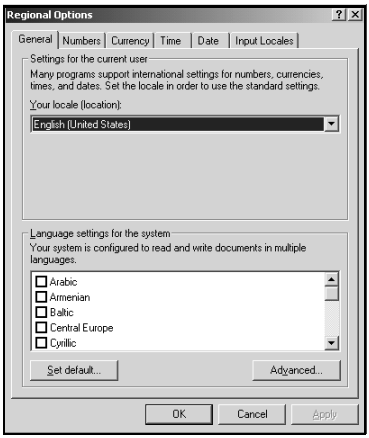
Operator intervention is required to prevent the system software update.

If you are attempting to download previous versions of code, an error page will print stating “Low Release Level.” This will prevent older versions of system software from being downloaded over newer versions.

The system software update will abort without operator intervention if the system software on the CD-ROM is the same as, or older than, the one currently installed on the printer controller.

Regional Settings/Options (Windows)

When you insert the *Software Utilities* CD-ROM (that ships with your printer) into your PC’s CD-ROM drive, it checks your PC’s Regional Settings/Options and automatically starts up in the language that is set (if this language is supported). You may change the opening language by changing the PC’s Regional Settings/Options (from the Windows Start menu, choose Settings > Control Panel and then double-click Regional Settings/Options). The illustration shows the Windows 2000 Regional Options dialog box.



Other applications on your PC may also be affected by changing the Regional Settings.

Drivers and Utilities

The printer driver and additional software found on the *Software Utilities* CD-ROM can be installed on PCs using any of the following:

- Windows Me
- Windows 98
- Windows 95 (B minimum)
- Windows XP
- Windows 2000
- Windows NT4 (4 minimum, 6 recommended)
- Macintosh
- UNIX/Linux
- NetWare
- NDPS

Drivers

Drivers/Location	Use/Benefit	Installation Instructions
PostScript Driver for Windows Me/98/95	This driver gives you access to all of the printer features, including finishing and advanced layout on the Windows Me/98/95 platform.	Parallel—page 56 Ethernet—page 52 USB—page 54 Windows 95 does not support USB.
PostScript Driver for Windows XP/ 2000	This driver gives you access to all of the printer features, including finishing and advanced layout on the Windows XP/2000 platform.	Parallel—page 56 Ethernet—page 52 USB—page 54
PostScript Driver for Windows NT4	This driver gives you access to all of the printer features, including finishing and advanced layout on the Windows NT4 platform.	Parallel—page 56 Ethernet—page 52 Windows NT4 does not support USB.

Drivers/Location	Use/Benefit	Installation Instructions
PCL5e Drivers for Windows XP PCL5e Drivers for Windows Me, 98, and 95 PCL5e Drivers for Windows NT4 (limited support; 600 dpi) PCL5e Drivers for Windows 2000	PCL5e allows limited access to features on the printer. Reasons to use a PCL5 driver: the application requires it or you have problems printing using the PostScript driver.	Readme on the *Software Utilities* CD-ROM. You cannot install a PCL5e driver for Windows 9*x* or Windows NT4 without a Windows CD-ROM. This CD-ROM is required so you can supply the following files when prompted: **For PCL5 9*x*—**ICONLIB.DDL, UNIDRV.DLL, and UNIDRV.HLP **For PC5 NT4—**RASDD.DLL, RASDDUI.DLL, and RASDDUI.HLP. If you install the driver and skip these files, an error message displays at the end of the process.
PCL6 Drivers for Windows XP (1200 dpi) PCL6 Drivers for Windows Me, 98, and 95	PCL6 allows access to most of the features on the printer. Reasons to use a PCL6 driver: the application requires it or you have problems printing using the PostScript driver.	Readme on the *Software Utilities* CD-ROM.
Notes	The PCL drivers support the same networks and connectivity that the PostScript drivers do; however, on the Device Options tab in the PCL5 9*x* driver, the only selectable option is Printer Memory. The Printer Memory drop-down box allows you to specify the amount of memory installed in the printer. Some PCL drivers display both options you do have and those you don't have access to. For example, if you select duplex printing, but you don't have an optional duplexer attached to your printer, the file will still print, but it will print simplex. If the PCL6 driver does not provide the desired output, use the PCL5e driver.	

Utilities and PPDs

Utilities	Use/Benefit	Installation Instructions
Crown Print Monitor for Windows	This Windows utility gives an efficient serverless method for transporting print jobs directly to a MINOLTA-QMS printer via the TCP/IP protocol. The Crown Print Monitor functions on Windows Me/ 98/95 as well as Windows XP/2000/ NT4.	Ethernet—page 52
Download Manager	This utility provides the ability to download fonts, and overlays to the printer's hard disk. It also allows you to download fonts to printer memory.	Readme on *Software Utilities* CD-ROM
Linux PPDs	These PPDs can be used with third-party Linux print filters that use PPDs.	Readme on *Software Utilities* CD-ROM
Macintosh PPDs	PostScript Printer Description allows you to configure options such as memory installed, and informs the computer what options and features are available.	Readme on *Software Utilities* CD-ROM
OS X Installer	This installer places a PostScript Printer Description (PPD) file on your system and allows you to use your printer with Macintosh OS X version 10.0.3 or higher. The installer places the PPD files in the correct folder automatically.	For installation of PPDs and utilities for OS X, refer to the MINOLTA-QMS website at www.minolta-qms.com, and download the Macintosh OS X installer.
PageScope	This utility, designed with administrators in mind, is a powerful tool allowing centralized management of all the Crown printers on your network. It is available for Windows, Macintosh, and UNIX platforms. Refer to the *PageScope* manual (in PDF format on the *Software Utilities* CD-ROM) for more information.	Readme on *Software Utilities* CD-ROM; *CrownBooks* on the *Documentation* CD-ROM

Utilities	Use/Benefit	Installation Instructions
PostScript Printer Description Files (PPDs)	These PPD files allow you to install the printer for a variety of platforms, drivers, and applications.	Readme on *Software Utilities* CD-ROM; *CrownBooks* on the *Documentation* CD-ROM
UNIX Host Software	UNIX Host Software, compatible with a variety of UNIX platforms, allows for the customization of UNIX-based queues and filters for the specific features of the Crown printer.	Readme on *Software Utilities* CD-ROM; *CrownBooks* on the *Documentation* CD-ROM

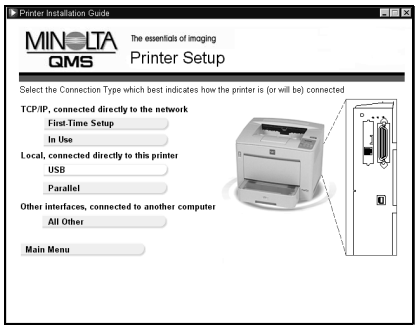
Installing Printer Drivers and Utilities, Windows Environments—Auto-loading Installation

1 Insert the PagePro 9100 *Software Utilities* CD-ROM in your CD-ROM drive.

If the CD-ROM does not automatically start up, double-click setup.exe in the root directory.

2 In the first window, click Printer Setup.

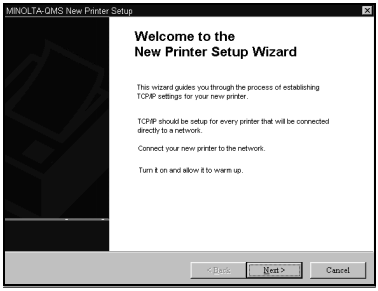
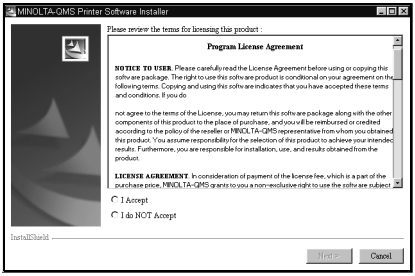
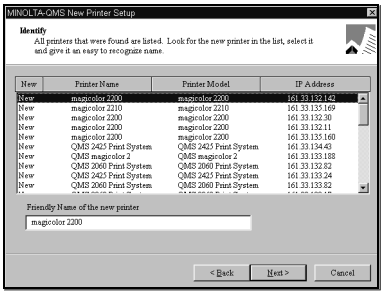
3 Choose the method by which the PC and printer are connected. Instructions for each type of connection are included below.

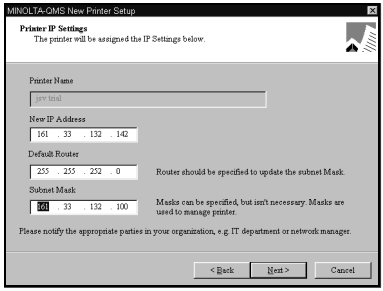
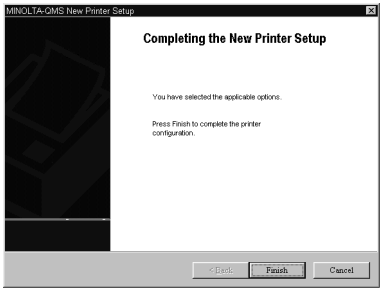


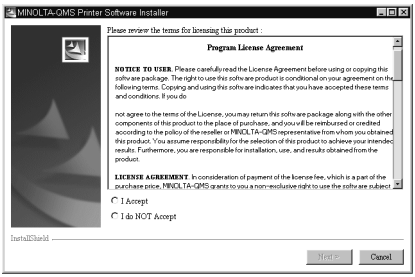
4 Follow the instructions on the screen.

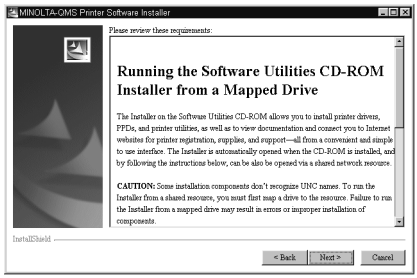
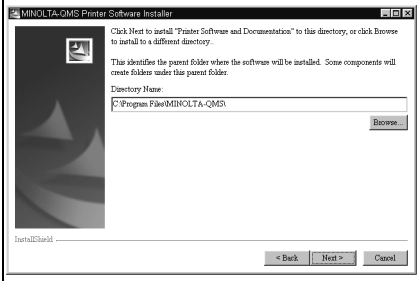
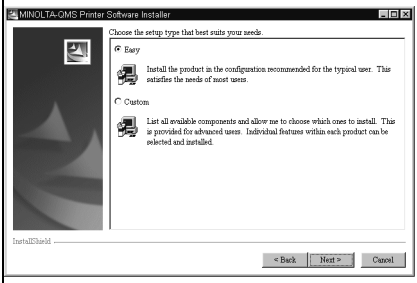
USB
Follow the instructions on the screen to install printer software and documentation.

All Other (except USB, TCP/IP, and Parallel)
Follow the instructions on the screen to install printer software and documentation.

TCP/IP	
If you chose TCP/IP, click First Time Setup. *The Welcome to the New Printer Setup Wizard appears.* *First Time Setup needs to run only once; after that, choose In Use.* Click `Next`.	
After reading the Program License Agreement, choose Accept. Click `Next`.	
Select your new printer in the list, and type an easy-to-recognize name in the box. Click `Next`.	

TCP/IP	
Verify the IP address. Click `Next`.	
Click `Finish`. Follow the instructions on the screen to install printer software and documentation. This installation process is quite similar to the process shown below for Parallel connection.	

Parallel	
If you choose Parallel, select a language for your driver from the available list. Click OK.	
After reading the Program License Agreement, choose `I Accept`. Click `Next`.	

Parallel	
If there is a problem with the installation, the screen “Running the Software Utilities CD-ROM Installer...” may appear. Choose to read the entire screen for further information, or choose to skip it by clicking `Next`.	
Choose `Next` to install Printer Software and Documentation to the directory shown in the box. Choose `Browse` to install to a different directory.	
Choose the setup type that best suits your needs—Easy or Custom. Click `Next`.	

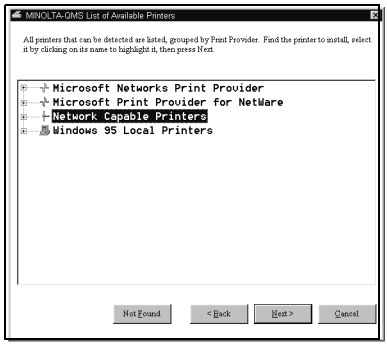
Parallel

If you choose Custom, you are asked to specify which software and documentation you want to install.

- Microsoft Networks Print Provider lists the network of all Microsoft Windows PCs and servers.
- Microsoft Print Provider for NetWare lists the Microsoft NetWare client installed.
- Network Capable Printers lists printers attached directly to the network that use TCP/IP.
- Local printers lists the printers already installed.

If your printer is listed, select it by highlighting its name and clicking `Next`.

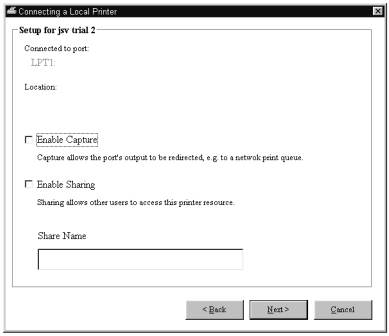
If your printer is not listed, select `Not Found` and follow the instructions on the screen.

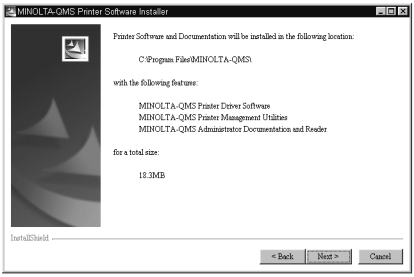
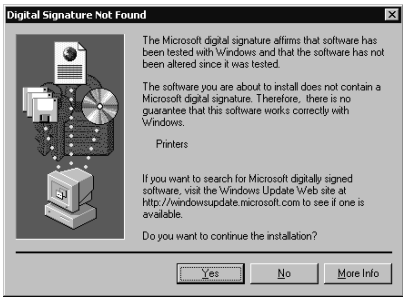
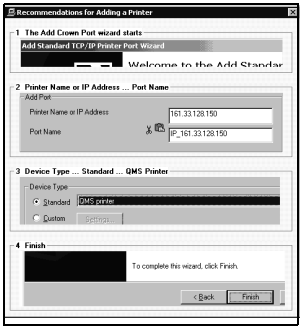
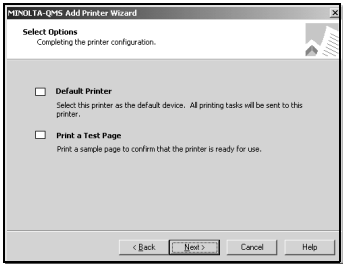


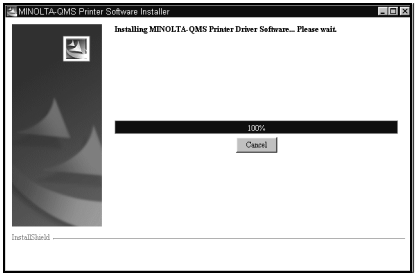
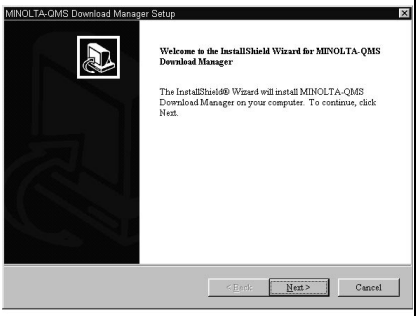
Select options needed, such as Sharing.

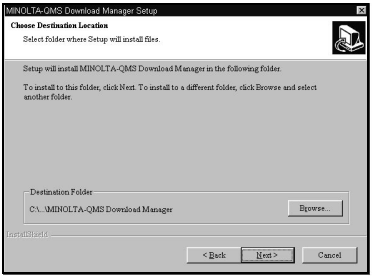
It is not required to choose either option, but they are available, if desired.

Click `Next`.



Parallel	
The Printer Software Installer screen appears. Click `Next`.	
The Digital Signature Not Found screen may appear. Follow the instructions on the screen.	
Add a port with the Add Crown Port wizard. Click `Finish`.	
Select Default Printer to select the printer as the default device, or print a test page to confirm that the printer is ready for use. Click `Next`.	

Parallel	
Wait while the software loads to the chosen directory.	
Select the language for your Download Manager from the available list. Click OK.	
The Download Manager setup screen appears. Click Next	

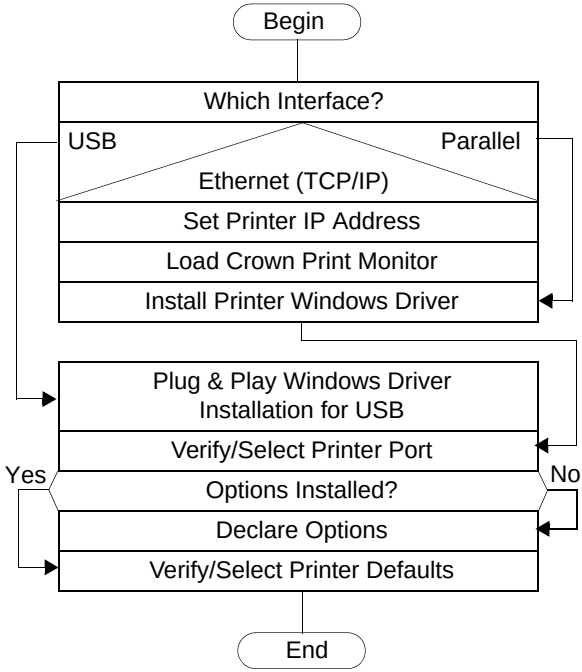
Parallel	
Choose the destination folder for the Download Manager files. Click `Next`.	
Follow the instructions on the screen to install remaining components. When the installation is complete, click `Finish`.	
If the printer already has the code version you're attempting to load or has a newer one, an error page will print a message saying that the printer will not replace a current or newer version with an older version. Wait for it to finish loading. *If you are installing a new code, you may have to wait up to10 minutes for the update. Do not interrupt the process.*	

5 Remove the CD-ROM from the PC, and store it in a safe place.

Installing Printer Drivers and Utilities, Windows Environments—Manual Installation

If you wish to install printer drivers and utilities manually, the steps are included below.

Some Notes to Consider



- In the following sections, we assume that you are installing the software for the first time. The illustration shows the structure we follow to install the printer's Windows software.
- We use screen shots taken from a Windows 98 platform. Although the procedure is very similar, these screen shots may differ if you work on other Windows platforms. We add comments for other Windows platforms whenever appropriate.

Windows—Ethernet TCP/IP

Detailed instructions for configuring TCP/IP can be found in the *CrownBooks* (in PDF on the *Documentation* CD-ROM).

DHCP Installation

If you use DHCP to install TCP/IP, you must enable DHCP/WINS in Administration/Communications/Optional NIC/CrownNet/TCPIP printer configuration menu. See your network administrator and *your* CrownBooks *on your* Documentation *CD-ROM for further information.*

Manual TCP/IP Installation

1 Connect your printer to the network with an Ethernet cable.

2 If necessary, in the Administration/Communications/Optional NIC/CrownNet/TCPIP/Internet Address menu, enter the printer's Internet address.

The factory default Internet address is 161.33.128.24. If necessary, in the Administration/Communications/Optional NIC/CrownNet/TCPIP/Default Router menu, enter the Internet address.

The factory default router address is 000.000.000.000. This setting provides automatic sensing of gateways. If you identify a subnet mask, automatic sensing is disabled.

3 If you want to refer to the printer by host name instead of IP address, edit the system host table by adding the following line to the host file:

```
internetaddress hostname
```

where `internetaddress` is the Internet address of the printer (Administration/Communications/Optional NIC/CrownNet/TCPIP/Internet Address menu), and *hostname* is the descriptive name of the printer. This requires administrator privileges on your network. Contact your system administrator.

4 Insert the *Software Utilities* CD-ROM.

5 Select Printer Setup.

6 Select the option First Time Setup.

When in the first window, click the Printer Setup link.

7 Or, select In Use and select a TCP/IP connection.

a Select "Custom" for installation of Printer Management Utilities, and for Printer Driver Software.

b Click `Next`.

c Follow the steps in the Install Wizard.

During software installation you can view online help by choosing the Help button.

8 Or, select USB. USB will automatically load using Plug and Play technology. Refer to “Plug and Play Installation” on page 56.

9 Remove the *Software Utilities* CD-ROM from the PC, and store it in a safe place.

Manually Assigning a Crown Port

The Crown Print Monitor for Windows XP/2000/NT4/Me/98/95 transports print jobs to a print device using the TCP/IP protocol and provides status information to the host. The *Software Utilities* CD-ROM automatically assigns the Crown Port. However, if you installed the Crown Print Monitor and want to manually assign a new Crown port, follow the instructions in this section.

1 From the Start menu, choose Settings

2 Choose Printers.

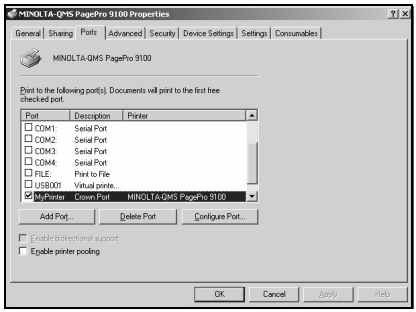
3 In the Printers window click the right mouse button on the PagePro 9100 printer icon to display the printer’s menu.

4 Choose Properties.

5 Choose the Details tab (Windows Me/98/95) or Ports tab (Windows XP/2000/NT4).

6 From the Print To The Following Port list, choose the Crown port that was added during the Crown Print Monitor installation.

7 Choose OK to close the Printer Properties window.



For additional information about the Crown Print Monitor, see the Crown Print Monitor Administrator’s Guide (in PDF format on the Software Utilities *CD-ROM). For information about the print monitor that comes with Microsoft Windows 2000, see your Windows documentation.*

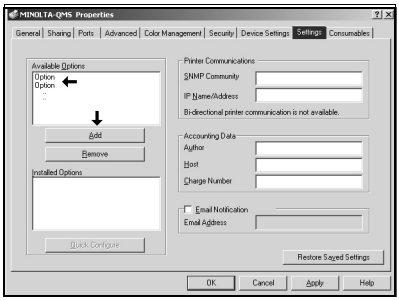
Select Driver Options/Defaults

Before you start working with your printer, you are advised to verify/change the default driver settings. Also, in case you have options installed, you should “declare” the options in the driver.

1 If you installed available options, proceed with the next step; otherwise, proceed with step 5.

2 Choose Settings.

3 Select an option (one at a time) and click Add. The option will now move to the Installed Options list.



If you accidentally select an uninstalled option, select the option in the Installed Options list and then click Remove.

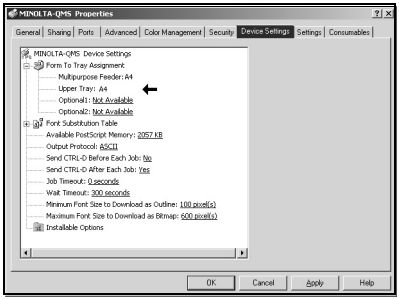
4 After you have installed all options, click `Apply`.

5 Choose Device Settings.

6 Select the default settings for your printer, such as the default media format you use.

7 Click `Apply`.

8 Click OK and exit from the Properties dialog box.



Windows—USB

USB uses a Plug and Play installation. See also “Plug and Play Installation” on page 56.

Make sure your operating system (Win98SE and above, not including Windows NT4) supports USB and make sure USB drivers for the port are installed on your operating system (found on the Device Manager).

1 Turn the printer on and make sure the message window displays `IDLE`.

2 Plug one end of the USB cable into the PC and the other into the printer’s USB port.

The operating system displays `New Hardware Found`, *and lists* `USB Device`.

The next screen that appears is the `Add New Hardware Wizard` *listing* `MINOLTA-QMS Printing Support`.

3 Click `Next`.

4 Leave the next screen at the default selection `Search for the Best Device, Recommended,` and click `Next`.

5 Click Browse.

6 On the *Software Utilities* CD-ROM, browse to \Drivers\Windows\ Operating System (*for example, Windows ME, 98 & 95*)\Driver\Language, and select `OK`.

7 Click Exit and exit the Printer Installation Wizard.

8 On the screen displaying `Please insert disk labeled MINOLTA-QMS PostScript Driver`, select `OK`.

9 Select `OK`.

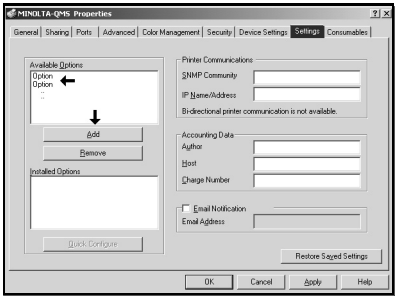
Select Driver Options/Defaults

Before you start working with your printer, you are advised to verify/change the default driver settings. Also, if you have options installed, you should "declare" the options in the driver.

1 If you installed available options, proceed with the next step; otherwise, proceed with step 5.

2 Choose Settings.

3 Select an option (one at a time) and click Add. The option moves to the Installed Options list.



If you accidentally select an uninstalled option, select the option in the Installed Options list and then click Remove.

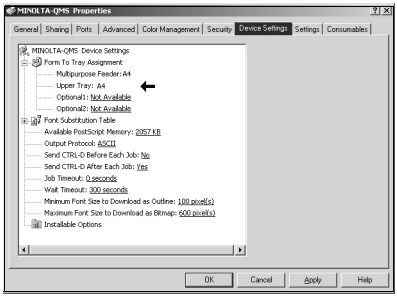
4 After you have installed all appropriate options, click `Apply`.

5 Choose Device Settings.

6 Select the default settings for your printer, such as the default media format you use.

7 Click Apply.

8 Click OK and exit from the Properties dialog box.



Windows—Parallel Connection

Plug and Play Installation

Windows 95 and Windows NT4 do not support Plug and Play technology. If you're using one of these platforms, skip to "Manual Installation of the Printer Driver" on page 62.

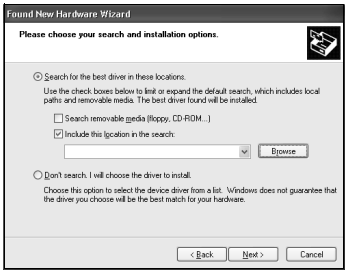
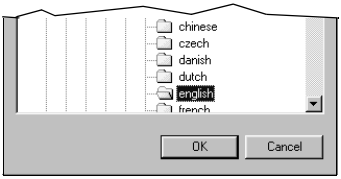
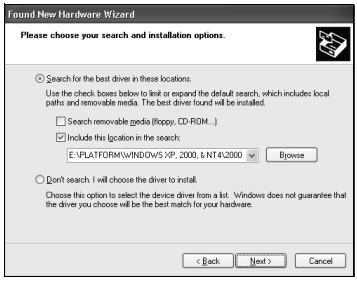
Ethernet connections don't support Plug and Play technology. If you're using an Ethernet network connection, skip to "Windows—Ethernet TCP/IP" on page 52.

1 Connect your printer to your PC with a parallel cable.

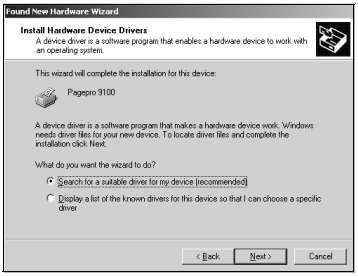
Under certain PC configurations, the Software Utilities *CD-ROM automatically launches its own installation utility. If this should occur during the Plug and Play procedure, cancel the Plug and Play installation and install the driver using the CD-ROM installer for easy access to online documentation.*

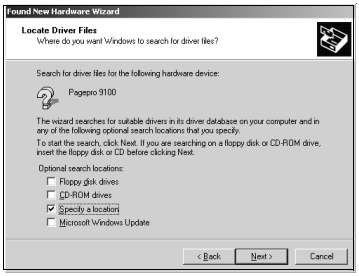
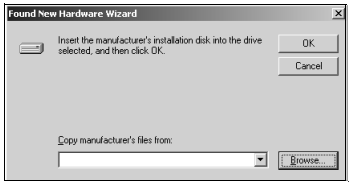
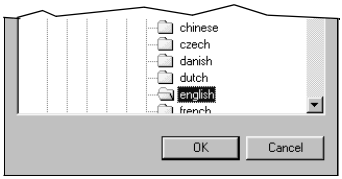
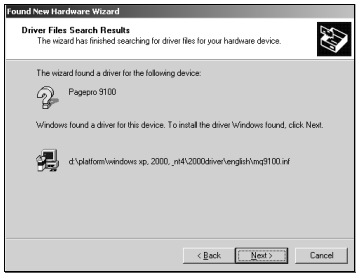
2 With your PC turned off, turn on the printer (the power switch is on the side of the printer), and then turn on your PC. A Found New Hardware message appears. Follow the directions for your operating system:

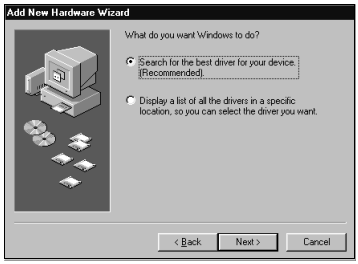
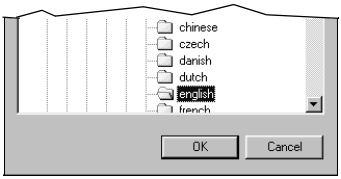
Windows XP
Insert the *Software Utilities* CD-ROM, and close the CD-ROM auto-installer window.

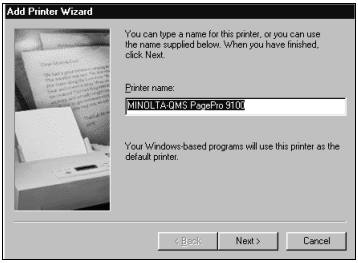
Windows XP	
In the first window of the Found New Hardware Wizard, select Install from a list or specific location. Then click Next.	
Select Search for the best driver in these locations. Uncheck all options except Include this location in the search. Click Browse... to open a window to locate the driver files.	
Browse to the appropriate language directory (for example PCL, PPD, or PS) within the Drivers\WINDOWS XP directory. Click OK.	
Verify your selection, and click Next.	

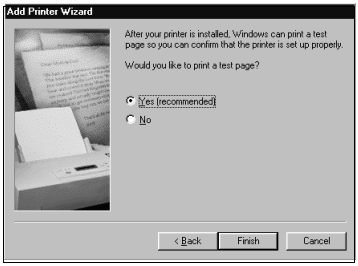
Windows XP	
Click `Finish`.	

Windows 2000	
Insert the *Software Utilities* CD-ROM, and close the CD-ROM auto-installer window.	
In the first window of the **Found New Hardware Wizard**, click `Next`.	
Select the option to **Search for a suitable driver for my device.** Then select `Next`.	

Windows 2000	
In the Locate Driver Files window, uncheck all boxes except **Specify a location.** Then select `Next`.	
Click `Browse...` to open a window to locate the driver files.	
Browse to the appropriate language directory within the Drivers\Windows 2000 directory. Click `OK`.	
In the **Driver Files Search Results** window, verify your selection, and click `Next`.	
Click `Finish`.	

Windows Me/98/95	
Insert the *Software Utilities* CD-ROM, and close the CD-ROM auto-installer window.	
In the first window of the **Add New Hardware Wizard**, click `Next`.	
Select the option to **Search for the best driver for your device.** Then select `Next`.	
In the window that follows, uncheck all boxes except **Specify a location**. Then Click `Browse...` to open a window to locate the driver files.	
Use the **Browse For Folder** window to browse to the \Drivers\Windows Me, 9x directory. Select the language for your driver from the available list in the Driver directory. Click `OK`.	

Windows Me/98/95	
Verify your selection, and click `Next`.	
The next window show you what driver will be installed. Click `Next`.	
Give the printer a name, or leave the default name. Click `Next`.	

Windows Me/98/95	
Choose to print a test page or not, and click `Finish`.	

3 Remove the CD-ROM from the PC, and store it in a safe place.

Manual Installation of the Printer Driver

1 Connect your printer to your PC.

2 Insert the *Software Utilities* CD-ROM.

3 Exit Browser immediately.

Use the `Exit` *button, not the X in the upper right corner of your screen.*

4 From the Windows Start menu, choose Settings.

5 Choose Printers.

6 In the Printers window, double-click Add Printer.

The Add Printer wizard appears. Click `Next`.

7 Click `Next` again for Local Printer.

8 Select Have Disk and Browse.

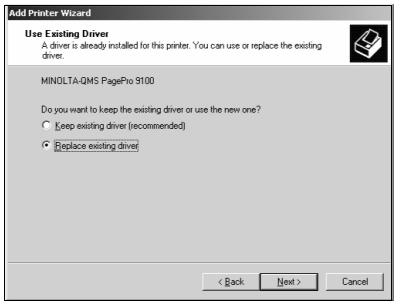
9 Choose the CD-ROM drive and select Drivers.

10 Select the driver appropriate for your operating system and the desired language.

11 Choose a file name such as mqgsps.inf (minusb.inf is for USB only). Click `OK` and `OK` again.

12 Choose the MINOLTA-QMS PagePro 9100. Click `Next`.

If the Replace Existing Driver window appears, select it, and click `Next`. If the driver installed correctly, you will not see that choice.



13 Choose the LPT port. Click `Next` and `Next` again.

14 Select Printer Name and whether you want to printer to be the default printer.

15 If you would like to print a test page, select that.

16 Select `Finish`.

17 Remove the CD-ROM from the PC, and store it in a safe place.

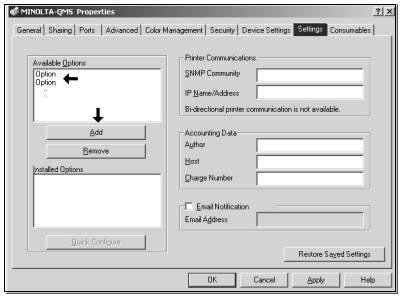
Select Driver Options/Defaults

Before you start working with your printer, you are advised to verify/change the default driver settings. Also, in case you have options installed, you should “declare” the options in the driver.

1 If you installed available options, proceed with the next step; otherwise, proceed with step 5.

2 Choose Settings.

3 Select an option (one at a time) and click Add. The option will now move to the Installed Options list.



If you accidentally select an uninstalled option, select the option in the Installed Options list and then click Remove.

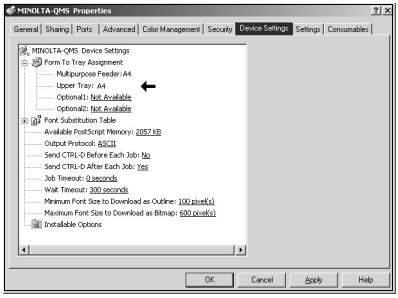
4 After you have installed all options, click `Apply`.

5 Choose Device Settings.

6 Select the default settings for your printer, such as the default media format you use.

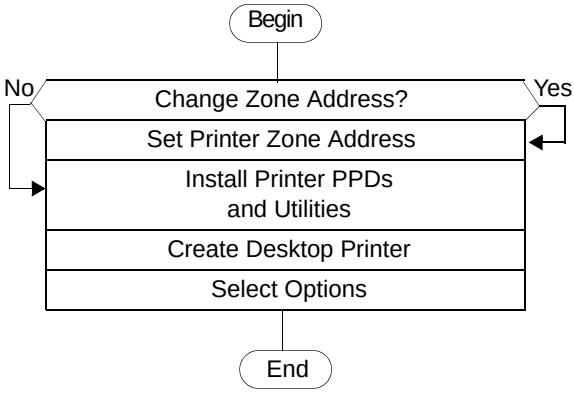
7 Click Apply.

8 Click OK and exit from the Properties dialog box.



Installing Printer Drivers and Utilities, Macintosh Environments

Some Notes to Consider



- In the following sections, we assume that you are installing the software for the first time. The illustration shows the structure we follow to install the printer's Macintosh software.
- We use screen shots taken from a Macintosh OS 9 platform. The procedure is similar to other Macintosh OS platforms.
- The current version of Macintosh OS X has limited support for PPD (PostScript Printer Definition) files. Although MINOLTA-QMS printers can be used with OS X, not all advanced printing features will be available. Advanced printing features are still available under OS 9.1, or when printing from the Classic Environment in OS X. To obtain the latest PPD for OS X, connect to the MINOLTA-QMS website at www.minolta-qms. com (select Online Help & Drivers), download the Macintosh OS X installer, and follow the on-screen instructions.

You can connect to your printer by

- An Ethernet cable.
- A crossover Ethernet cable.
- A USB cable.

Macintosh—EtherTalk Interface Configuration

This section briefly describes the configuration procedure for the printer interface. You can make these configuration changes through any of the following means:

- Printer control panel
- Print Utility for Macintosh
- Remote Console
- CrownView

When your printer boots up, it finds a default zone. If your network has more than one zone, use the Administration/Communications/Optional NIC/ CrownNet/EtherTalk/Zone Name/Zone Part 1 and Zone Part 2 menus to enter the name of the zone to which the printer is attached if you want it to appear in a zone different than the one it shows in.

The two Zone Part x menus allow you to identify 1 zone with a name up to 32 characters long. (Up to 16 characters can be entered in each of the two menus). You cannot use these two menus to identify two zones. Trailing spaces are not considered part of the zone name. All standard printable ASCII characters are valid except the @ and ' symbols. The names are case sensitive.

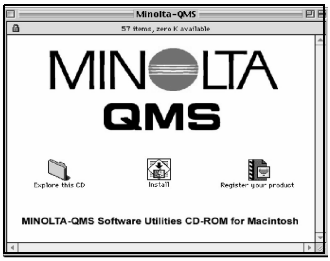
Macintosh—PPDs

MINOLTA-QMS develops a PostScript Printer Description (PPD) file for every printer it produces for the Macintosh. The Macintosh Operating System includes a PostScript printer driver (LaserWriter) that uses this PPD to provide support for features such as input bins, and media sizes.

Macintosh—PPDs and Utilities (OS 8/9) Installation

1 Insert the *PagePro 9100 Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.

If this screen does not appear, double-click the MINOLTA-QMS CD-ROM icon on your Macintosh desktop.



2 Double-click the CD-ROM icon and then double-click the Install icon.

3 Follow the instructions on the screen to install the PagePro 9100 PPD and utilities.

4 After the PPD and utilities installation is complete, choose Quit.

5 Remove the CD-ROM from your CD-ROM drive and store it in a safe place.

Macintosh OS 9.*x*—USB

1 Plug one end of the USB cable into the Macintosh and the other into the printer's USB port.

The operating system displays `New Hardware Found`, *and lists* `USB Device`.

2 Locate the Desktop Printer Utility.

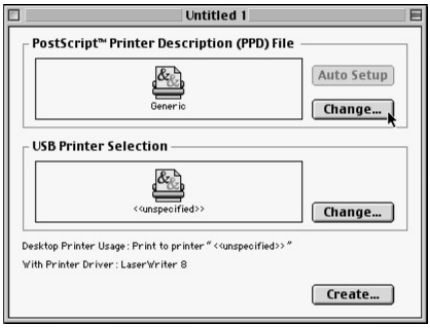
If you cannot locate it on your hard disk, it can be found on your Macintosh's system CD-ROM.

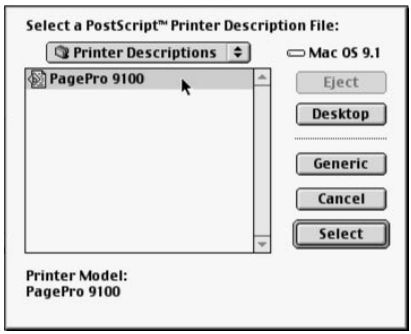
3 Double-click the Desktop Printer Utility icon to open the application.

The first window prompts you to select the type of desktop printer you would like to create.

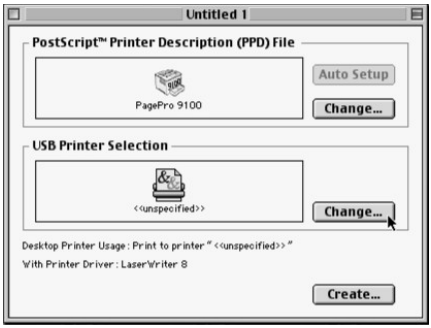
4 Select Printer (USB), and select `OK`.

5 Choose the Change button in the PostScript Printer Description section. In the resulting window, select the PagePro 9100 PPD, and choose Select.





6 Choose the Change button in the USB Printer Selection section. In the resulting window, select the PagePro 9100, and click OK.



Macintosh OS 9.x—System Software

1 Insert the *PagePro 9100 Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.

If this screen does not appear, double-click the MINOLTA-QMS CD-ROM icon on your Macintosh desktop.

2 Double-click the Explore this CD icon.

3 Double-click the 9100 System Code folder, and then locate the system software file (sys_*x_x_x*.ps).

4 Drag the sys_*x_x_x*.ps icon and drop it on the PagePro 9100 printer icon on your desktop to perform the system software upgrade.

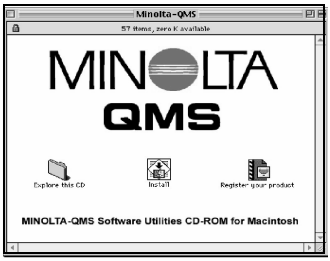
***Note**: If your printer's system software version is later than the version on the CD-ROM that you are downloading, an error page will print on the printer. In this case, go to step 5. You do not need to upgrade the printer's system software.*

5 When the system software installation is complete, remove the CD-ROM from your CD-ROM drive and store it in a safe place.

Macintosh—PPDs and Utilities (OS X) Installation

1 Insert the PagePro 9100 *Software Utilities* CD into your Macintosh's CD-ROM drive.

If this screen does not appear, double-click the MINOLTA-QMS CD-ROM icon on your Macintosh desktop.

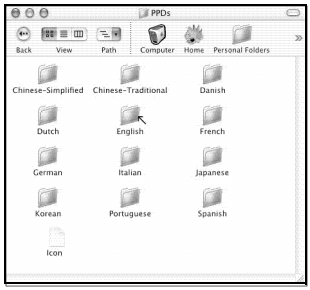


2 Double-click the Explore this CD icon.

3 Double-click the PPDs folder.

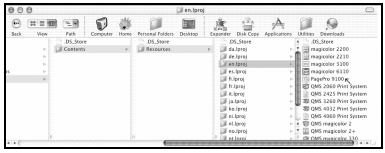
4 Double-click the appropriate language folder.

You will see a list of several Minolta-QMS printer PPDs. Keep this window open; you will come back to this list in the next step.



5 Double-click your Macintosh's hard disk icon and locate the directory in which your printer's PPD will be stored:

Hard Disk Name/Library/Printers/PPDs/Contents/Resources/*Language Abbreviation*.lproj/



For example, en.lproj would designate English.

6 Drag the appropriate PPD from the directory in step 4 to the *Language Abbreviation*.lproj directory.

PPD installation is complete.

Macintosh OS X—USB

1 Plug one end of the USB cable into the PC and the other into the printer's USB port.

The operating system displays `New Hardware Found`, *and lists* `USB Device`.

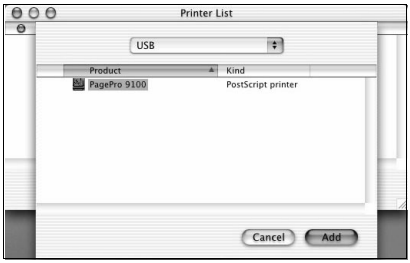
2 Locate and double-click the Print Center utility to open it.

3 In the Printer List window, choose Add.

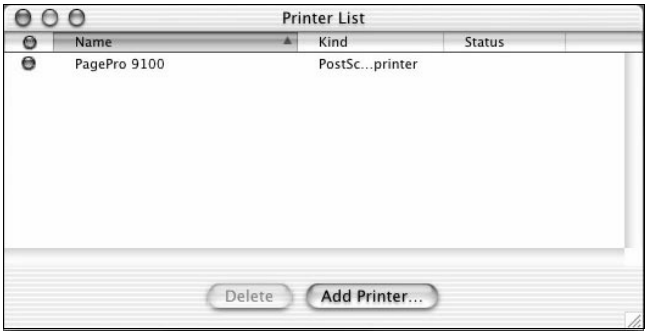
4 In the resulting window, select USB for the printer type.

If your printer is connected properly, you will see PagePro 9100 in the window.

5 Choose the Printer Model popup menu to select the PagePro 9100 PPD, and choose Add.



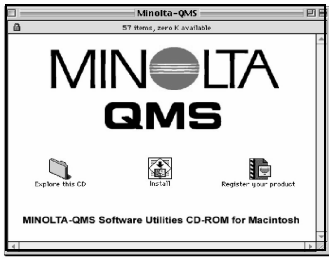
The printer should appear in the Printer List.



Macintosh—System Software (OS X)

1 Insert the *PagePro 9100 Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.

2 Double-click the CD-ROM icon to display its contents.



***Note**: Unlike Macintosh OS 8/9, it is not necessary to install the PagePro 9100 PPD and utilities before upgrading the printer system software.*

3 Open a Terminal window. (Terminal is located on the hard disk in the Applications/Utilities folder.)

4 At the command prompt, type

cd /↵
cd Volumes/Minolta-QMS/"Explore This CD"/"9100 System Code"/↵
ls↵

5 Record the filename of the system software file (sys_*x_x_x*.ps).

6 At the command prompt, type

ftp *xxx.xxx.xxx.xxx*↵	[*xxx.xxx.xxx.xxx* is the printer's IP address]
↵	[at the username prompt]
↵	[at the password prompt]
bin↵	
hash↵	
put sys_*x_x_x*.ps↵	[sys_*x_x_x*.ps is the system software filename]

***Note**: If your printer's system software version is later than the version on the CD-ROM that you are downloading, an error page will print on the printer. In this case, go to step 7. You do not need to upgrade the printer's system software.*

7 When the system software installation is complete, at the ftp command prompt type **quit**↵.

8 Quit Terminal.

9 Remove the CD-ROM from your CD-ROM drive and store it in a safe place.

UNIX, NetWare, and NDPS

For UNIX, NetWare 3, NetWare 4, NetWare 5, and NDPS installation, refer to the *CrownBooks* on the *Documentation* CD-ROM.

Linux

For Linux PPD and PDQ installation, refer to the readme file on the *Software Utilities* CD-ROM.